Introduction

Ground-source heat pumps use the earth and/or groundwater as a heat source in winter and a heat sink in summer. Using ground temps of 40°F to 68°F, the heat pump, a device that "concentrates" and moves heat from one place to another, transfers heat from the soil to the building in winter and from the building to the soil in summer. The current rate of installation is thought to be between 35,000 and 45,000 buildings per year.

The current production of geothermal energy from all uses follows hydroelectricity and biomass, and is ahead of solar and wind. Nevertheless, the current level of geothermal use pales in comparison to its potential. The keys to wider geothermal/ground source heating/cooling use are greater awareness and then technical support and information—areas that are addressed in this conference.

Who Should Attend

This workshop will be valuable to:

- Architects
- Engineers
- School Districts
- ESCOs
- State Building operators/planners
- Water Rights & UGS staff
- Installers/Service people
- Legislators
- Any interested individuals

Agenda - Thursday, November 14th

7:30 AM	Registration
8:00	Introduction/Opening Remarks
	Intro to geoexchange
	Ground source heating/cooling
	What's happening nationwide
	Local buildings with system
10:00	Break
10:30	Engineering for the system
	Operating and maintaining the buildings
12:00 PM	Lunch
1:00	Can/Should this system be in homes
2:30	Break
3:00	Panel and wrap-up
4:30	Adjourn

Demos and hands on system examples of things such as HDPE pipe, U-Tubes, heat exchange units, Energy Recovery Ventilators, etc. will be shown during presentations and will be available during breaks.

Registration

Registration is $20 per person. Continental breakfast, lunch, and break refreshments will be provided to those attending. **Seating is limited to 100, so register early.** Please return your completed registration form and payment to:

Utah Engineering Experiment Station
1495 E 100 S, Room 138
Salt Lake City, UT 84112

Or fax to (801) 581-5440, Attn: Jerry Zenger (credit cards only)

Or register online at: www.utah.edu/uees

In compliance with the Americans with Disabilities Act, individuals needing special accommodations including auxiliary communicative aids and services during the workshop should notify Janeen Bennion at (801) 581-6348 by Friday, November 8, 2002.

Speakers To Include:

Cary Smith C.G.D. is the president of Sound Geothermal Corporation. He is a certified GeoExchange designer, GeoMerit design Consultant, and is an expert in the area of drilling engineering and hybrid GeoExchange loop systems.

Jack DiEnna,Jr. is the Key Accounts Manager for the Geothermal Heat Pump Consortium. Jack is an expert in national marketing of GeoExchange systems.

Ken Naylor is a principal in Naylor-Wentworth-Lund Architects. NWL has designed the majority of the ground coupled schools in Utah.

Cory Greenwell works for Olsen & Peterson Engineering and is the HVAC design engineer for the two largest ground source projects in the western mountain states; Cedar City HS and Murray HS.

Phil Williams is the Facilities Manager for Washington County School District and oversees the operation of multiple ground-coupled systems.

Le Roi Merrill is a residential developer in southern Utah. He has used GX systems for over 10 years. Le Roi has been featured in a GHPC national residential teleconference.

Bill O'Donnell P.E. is the principal of Quantum Group Engineering. Bill's specialty is ground coupled hydronic and hybrid systems. Bill has designed GX systems in 10 states.

Any Conference questions please contact Bernell Loveridge at 801-538-5413.

Utah Energy Office

Rebuild America
U.S. Dept. of Energy

REGISTRATION FORM:

Geoexchange in Utah Conference

❑ **Registration fee: $20**
Registration Deadline: Friday, Nov 8, 2002
Late Registration fee: $30

Name: _____
Title: _____
Firm/Organization: _____
Address: _____
_____
City: _____
State: _____ **Zip:** _____
Daytime Phone Number: _____
E-mail Address: _____

Card Holder: _____
Visa MasterCard (circle one)
Number: _____
Expiration Date: _____
Signature: _____

Please RSVP and make payment to:

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(801) 581-6348 (801) 581-5440 (Fax)
Or online at: www.utah.edu/uees

For more than one registrant, please duplicate and fill out a separate form.

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7:30 AM to 4:30 PM
State Library for the Blind, Auditorium
250 North 1950 West
Salt Lake City, Utah
Fee $20

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